

Amendments to the Abstract and Specification

Please replace the current Abstract with the following replacement Abstract (marked to show changes):

B1
To ~~programming~~ program the device during running of a computational process in device electronics, the device having a an activated first memory area storing a first programmable configuration and a deactivated second memory area storing a second programmable configuration. The ~~the~~ second programmable configuration is modified. Simultaneously, the first programmable configuration in the first memory area is executed by the computational process. Upon completion of configuring the second memory area, the first memory area is deactivated and the second memory area is activated for ~~executing~~ executing by the computational process.

Please replace the second full paragraph of page 1 (line 7) with the following replacement paragraph (marked to show changes):

Background and Summary of the Invention

B2
In process automation technology, analog or digital measurement signals representative of process variables are preferably generated using field mounted devices. The process variables may represent, for example, mass flow rate, tank contents level, pressure, temperature, etc., which are sensed with suitable sensors.

Please replace the second paragraph (lines 10-17) of page 3 with the following replacement paragraph (marked to show changes):

B3
For such reconfigurations of the functions implemented in the field mounted device electronics, ~~mainly~~ corresponding modifications of the stored software are necessary in programmable field mounted devices. Such reconfigurations are commonly made in situ via a control unit connected to the field mounted device, and may comprise, for example, changes to individual instrument parameters or the loading of complete processing programs.

Please replace the second paragraph (lines 11-20) of page 5 with the following replacement paragraph (marked to show changes):

Summary

B4 It is therefore an object of the invention to provide a programmable field mounted device, particularly an intrinsically safe field mounted device, comprising field mounted device electronics which are reconfigurable during on-line operation and which during and after the reconfiguration are not placed in an undefined or erroneous state caused by this reconfiguration. Furthermore, at least the last executed software is to be stored in the field mounted device electronics even after a power failure during reconfiguration.

Please replace the third paragraph (lines 22-32) of page 5 through the first paragraph (lines 1-2) of page 6 with the following replacement paragraph (marked to show changes):

To attain this object, the invention ~~consists in~~ comprises a method for configuring a field mounted device having a memory, the method comprising the steps of:

B5 running a computational process having data read access to an activated first memory area storing a programmable first device configuration;

deactivating the first memory area, wherein said step comprises precluding said computational process ~~to access~~ from accessing the first memory area; and

activating a deactivated second memory area storing a programmable second device configuration, wherein said step comprises granting said computational process data read access to the second memory area.

Please replace the second paragraph (lines 4-5) of page 6 with the following replacement paragraph (marked to show changes):

B6 ~~Preferred~~ Preferred embodiments and developments of the method of the invention are defined by the respective subclaims.